RECONFIGURABLE STRUT ASSEMBLY

ABSTRACT OF THE DISCLOSURE

A vehicle includes front and rear suspension systems. The vehicle includes front left and right strut assemblies respectively including front left and right knuckles. Rear left and right strut assemblies respectively include rear left and right knuckles. The knuckles are common with one another with each knuckle having a common lower suspension attachment boss. The front left and right knuckles respectively receive front left and right connection members at the lower attachment boss. The connection members are respectively interconnected to the front left and right suspension components. The rear left and right knuckles respectively receive rear left and right connection members at the lower attachment boss respectively interconnected to rear left and right suspension components. The overall suspension for the vehicle is designed by determining the knuckle position parameters for one of the knuckles including such features as suspension member, brake, and wheel assembly attachment points. Similarly, the knuckle position parameters are determined for another knuckle in a different location or on a different vehicle. Common vehicle attachment points on the knuckles are then calculated for the vehicle.